

Kearny County

Estimated Economic Impact of Agriculture, Food, and Food Processing Sectors 10/8/14

8 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Kearny County economy.¹

These 8 sectors have a total direct output of approximately \$229 million and support 790.4 jobs in Kearny County. Running the model for all 8 sectors simultaneously produces the following results:

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Agriculture Contribution in Kearny Co									
Impact Type ²	Employment	%	Total Value	% of Gross	Output ⁵	% of Gross			
		Employment	Added ³	Regional		Regional			
		2 0		Product ⁴		Product			
Direct Effect	790.4	34%	41,749,204.6	31%	228,650,340.7	172%			
Indirect									
Effect	74.7	3%	8,123,634.6	6%	12,882,244.5	10%			
Induced									
Effect	82.0	4%	6,329,579.2	5%	9,888,500.6	7%			
Total Effect	947.1	41%	56,202,418.4	42%	251,421,085.8	189%			

As shown in the above table, agriculture, food, and food processing supports 947.1 jobs, or 41% of the entire workforce in the county. These industries provide a total economic contribution of approximately \$251 million, roughly 189% of Gross Region Product (GRP). As noted below in the calculation of Gross Regional Product, imports and institutional sales are subtracted. Therefore, counties that import a relatively large amount of goods and services will have a reduced GRP which may lead to agricultural output being greater than GRP.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 8 agriculture, food, and food processing sectors is approximately \$56 million, or 42% of the GRP. This indicates that personal income, business income, and taxes generated by these sectors account for 42% of the total economy.

¹ Article on building a contribution analysis in IMPLAN that avoids double counting: http://www.implan.com/index.php?option=com content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70

² Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

³ Value added = labor income + indirect business taxes + other property type income.

⁴ GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

⁵ Output = intermediate inputs + value added.

The following tables document the overall summary numbers of the model, top industries affected by employment and output, and a listing of all industries that were analyzed.

In the top ten by employment, Grain farming is the top employer in the agriculture industry with 339.6 employees. This table also shows the amount of jobs that are created by the agriculture industry in Kearny County.

Description	Total Employment	Total Output
Grain farming	339.6	69,079,679.9
Cattle ranching and farming	230.5	126,304,881.0
Support activities for agriculture and forestry	151.6	241,963.8
Animal (except poultry) slaughtering, rendering, and processing	37.6	12,681,864.7
Real estate establishments	33.0	4,305,365.8
Food services and drinking places	15.5	735,681.0
Animal production, except cattle and poultry and eggs	15.3	2,719,378.7
Monetary authorities and depository credit intermediation activities	15.3	5,145,870.5
All other crop farming	12.0	15,384,351.6
Other state and local government enterprises	10.5	1,801,702.4

The Cattle ranching and farming industry directly contributes approximately \$126 million to Kearny County's economy. This table also shows how much revenue is generated in other industries by having a strong agriculture industry.

Description	Total Employment	Total Output
Cattle ranching and farming	230.5	126,304,881.0
Grain farming	339.6	69,079,679.9
All other crop farming	12.0	15,384,351.6
Animal (except poultry) slaughtering, rendering, and processing	37.6	12,681,864.7
Monetary authorities and depository credit intermediation activities	15.3	5,145,870.5
Real estate establishments	33.0	4,305,365.8
Imputed rental activity for owner-occupied dwellings	0.0	4,242,868.0
Animal production, except cattle and poultry and eggs	15.3	2,719,378.7
Other state and local government enterprises	10.5	1,801,702.4
Oilseed farming	2.4	1,349,571.8

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture sector and the output they contributed to Kearny County's economy.

Description	Employment	Output
Oilseed farming	2.40	1,331,581.23
Grain farming	339.64	68,158,805.85
All other crop farming	12.05	15,179,268.84
Cattle ranching and farming	230.52	124,617,935.18
Dairy cattle and milk production	1.25	876,780.27
Animal production, except cattle and poultry and eggs	15.34	2,683,058.26
Support activities for agriculture and forestry	151.63	232,179.48
Animal (except poultry) slaughtering, rendering, and processing	37.57	12,400,118.83
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All 105 counties in Kansas have Implan models and agriculture contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Kansas, the retail sector was omitted.